

BORISOV, N.L., inzh.

Increased bulldozer efficiency. Mekh. stroi. 18 no.6:2-5 Je  
'61. (MIRA 14:7)

1. Iz opyta raboty Upravleniya mekhanizatsii Odesskogo  
sovnarkhoza.  
(Bulldozers)

BORISOV, Nikolay Lavrent'yevich, inzh.; KASITSYNA, K.N., inzh.,  
red.

[Experience in increasing the capacity of bulldozers; based  
on materials of the Special Administration for Mechanization  
of the Administration of Construction of the Odessa Economic  
Council] Opyt povyshenija proizvoditel'nosti bul'dozerov; po  
materialam Spetsializirovannogo upravlenija mekhanizatsii  
Upravlenija stroitel'stva Odesskogo sovnarkhoza. Moskva, Gos-  
stroizdat, 1962. 38 p. (MIRA 17:7)

1. Akademija stroitel'stva i arkhitektury SSSR. Nauchno-  
issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stva. 2. Nachal'nik Spetsializirovannogo upravleniya mekhanizatsii Upravleniya stroitel'stva Odesskogo sovnarkhoza (for Borisov).

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206330011-5

BORISOV, N.L.

Bulldozer equipment mounted on the T-140 tractor. Mekh.  
stroi. 19 no.9:23 S '62. (MIRA 15:9)  
(Bulldozers)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206330011-5"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206330011-5

BORISOV, N.L., insh.

Transportation of road rollers. Mekh. stroi. 20 no. 8:16-17  
Ag '63. (MIRA 16:11)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206330011-5"

BORISOV, N.L., inzh.

Shop for repairing the hydraulic systems of construction machinery.  
Mekh. stroi. 21 no.1:20-22 Ja '64. (MIRA 17:4)

S/096/63/000/002/011/013  
E194/E455

AUTHORS: Khaybullin, I.Kh., Candidate of Technical Sciences,  
Borisov, N.N., Engineer

TITLE: A gamma-ray study of the density of the liquid phase of  
a system at high temperatures and pressures

PERIODICAL: Teploenergetika, no.2, 1963, 78-82

TEXT: Studies of the solubility in steam of relatively  
involatile substances are increasingly important as steam  
temperatures and pressures increase. The density of such systems  
is important and hard to determine. Accordingly,  $\gamma$ -ray  
determinations of the density of the liquid phase of water-salt-  
systems are described, with results for NaCl solutions at pressures  
up to 400 atm. The general principles of the  $\gamma$ -radiation method  
are explained and the following formula is given for the density

$$\gamma_t = \gamma_0 \lg \frac{N_t}{N_0 + \Delta N_t + \Delta N_{\gamma}} \quad \left( \frac{N_t}{N_0} \right) \quad (3)$$

where  $\gamma_0$  = the density of the fluid under normal conditions, g/cm<sup>3</sup>;

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A gamma-ray study ...

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$N_0$  and  $N_1$  - the recorded count speeds with the pressure vessel respectively empty and full of liquid at  $p = 1$  atm and  $t = 20^\circ\text{C}$ , impulses per minute;  $N_t$  - the recorded count rate on the filled vessel at the experimental temperature and/or pressure, impulses per minute;  $\Delta N_t$  - correction to  $N_0$  to allow for change in density of the walls of the vessel with temperature, impulses per minute;  $\Delta N_{C4}$  - correction for the influence of temperature of the counter on its effectiveness, impulses per minute. The determination of correction factors and the best level of water in the pressure vessel are explained. Of course, as the temperature and pressure in the vessel rise the solution concentration alters because of both evaporation and redistribution of solute between steam and liquid phases; a method of calculating the solution concentration under given conditions from the material balance is explained. The experimental equipment for measurements at 400 atm and  $600^\circ\text{C}$  used a  $\text{Co}^{60}$  source of ten millicuries in a lead sheath and a scintillation counter accurate to within  $\pm 0.5\%$ . Check tests on pure steam at 190 atm gave an average difference from tabulated data of  $\pm 1\%$ ; individual results had a scatter of Card 2/3

A gamma-ray study ...

S/096/63/000/002/011/013  
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± 5%. At higher pressures, different results were obtained on heating and on cooling, the latter being in agreement with steam tables. Original data were also obtained on the p-γ-t relationship for 0.2 and 6% NaCl solution up to 190 atm; solution concentration was found to have a great effect on the parameters, particularly in the critical region. For example at 100 atm the density of 6% NaCl solution is 12% greater than that of water under the same conditions and it is nearly double at the critical pressure for water of 225.65. These results are only a first step in the gamma-ray study of the thermodynamic properties of water and steam solutions of substances of low volatility. There are 6 figures and 3 tables.

ASSOCIATION: Energeticheskiy institut im. akad. G.M.Krzhizhanovskogo  
(Power Engineering Institute imeni G.M.Krzhizhanovskiy)

Card 3/5

KHAYBULLIN, I. Kh., kand. tekhn. nauk; BORISOV, N. M., inzh.

Problem concerning the mechanism of the transition of electrolytes dissolved in boiler feed water to high-pressure water vapor. Teploenergetika 10 no. 3:12-16 Mr '63.  
(MIRA 16:4)

1. Energeticheskiy institut imeni akademika G. M. Krzhizhanovskogo.

(Feed water) (Electrolytes)

KHAYBODIN, L. N. & BURISOV, N. M.

Phase equilibria in the NaCl - H<sub>2</sub>O system at high temperatures.  
Zhur. fiz. khim. 39 no. 3:688-692 Mr '65. (MIRA 18:7)

I. Moskovskiy energeticheskiy institut imeni Krzhizhanovskogo.

BORISOV, N.M.; KHAYBULLIN, I.Kh.

Volatility of components and the coefficient of distribution  
in the two-phase system NaCl - H<sub>2</sub>O at high temperatures. Zhur.  
fiz. khim. 39 no.6:1380-1387 Je'65. (MIRA 18:11)

1. Moskovskiy energeticheskiy institut imeni Krahishanovskogo.  
Submitted Jan. 24, 1964.

KHAYBULLIN, I.Kh.; BORISOV, N.M.

Phase equilibrium diagrams of the systems sodium chloride -  
water, potassium chloride - water. Dokl. AN SSSR 165 no.3:  
590-592 N '65. (MIRA 18:11)

1. Energeticheskiy institut im. G.M. Krzhizhanovskogo. Submitted  
April 26, 1965.

1. ITEM  
ACC NR: AP7003102

SOURCE CODE: [UR/0096/66/000/003/0091/0011](http://www6/66/000/003/0091/0011)

BORTSCOV, N. N.

Volume 104(2)

NAME: None  
"Scientific and Technical Conference on Temperatures and Hydro-Dynamic  
Conditions of Reliability of Steam Generating Equipment in Units Using  
Super Critical Pressures"

Topio-Energetika, No. 8, 1966, p. 94.

**TOPIC TAGS:** steam power plant, electric engineering conference  
**Abstract:** The conference was held in Moscow 19-21 April 1966 under the auspices of the Scientific Council of the Council Directors of Scientific Research and Planning Institutes of the Ministry of Power and Electrification of the USSR. The task of the conference was to exchange experience in operation of powerful steam generating units with supercritical pressures, used in 300 megawatt generating units, and to determine the principle direction for theoretical investigations on the temperature and hydro-dynamic operating states of heating surfaces in order to increase the reliability of operation of steam generating units. Approximately 150 specialists from various power systems, boiler plants, scientific research institutes, planning and installation organizations took part in the conference. 20 Reports were heard and discussed. The conference concluded that the main reasons for reduction in reliability of steam generating equipment with vertical panels are imperfections in hydraulic circuits in the lower radiating portion, thermal and hydraulic irregularities and variable hydro-dynamic characteristics in the superheaters of the equipment. The conference recommended work to: (a)

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UDC: 65.012.63

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ACC NR: AP7003102

Reduce the thermal and hydraulic irregularities in the screens; (b) Increase the flow rates of the operating medium in the screens; (c) Use circulating water for reducing the loads on the boilers during start-up; (d) Displace the zones of greatest thermal capacity; and (e) check the effectiveness of helical vortex inserts in screen tubing. [JPRS: 37,564]

SUB CODE: 10 / SUBM DATE: none

Card 2/2

BORISOV, N.N., redaktor; MAHTES, S.L., redaktor; SOKOLOVA, T.F., tekhnicheskly redaktor.

[Catalog of spare parts for the ZIM light automobile] Kataleg zapasnykh chastei legkovego avtomobilia ZIM. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 251 p. (MIRA 9:5)

1.Russia (1928- U.S.S.R.) Ministerstvo avtomobil'noy promyshlennosti.  
(Automobiles--Apparatus and supplies)

15015 1000 T / 1111

USSR/General Problems - Methodology. Scientific Institutions  
and Conferences. Instruction. Questions Concerning  
Bibliography and Scientific Documentation.

A-1

Abs Jour : Referat Zhur - Khimiya, No 8, 1957, 25687 D.

Author : N.N. Borisov.

Inst : Academy of Pedagogical Sciences of RSFSR.

Title : Methods of Chemistry Instruction Course at Pedagogical  
Institute.

Orig Pub : Avtoref. diss. dokt. ped. n. N.-i. in-t metodov obshcheniya.  
Akad. ped. nauk RSFSR, M., 1956,

Abstract : No abstract.

Card 1/1

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88374  
S/108/61/016/001/001/007  
B010/B077

9,1300

AUTHOR: Yashkin, A. Ya.,  
Borisov, N. N.

TITLE: Rectangular Waveguides With Rectangular Grooves and Open  
on One or Both Sides

PERIODICAL: Radiotekhnika, 1961, Vol. 16, No. 1, pp. 11-17

TEXT: The critical eigenvalues  $k$  of a H-type wave in rectangular waveguides open on one or both sides are calculated as dependent on the dimensions of the groove and the values of concrete cases are plotted. Rectangular grooves can do all functions of common dielectric disks in waveguides, this is a method of avoiding dielectric losses. In order to calculate waveguides with such grooves it is assumed that the conductivity of the wall material is unlimited and that the H-type waves along the z-axis. 1) The rectangular waveguides open on one side is divided into three partial spaces 1, 2, 3 (Fig.1) for which the  $H_z$  components  $H_1$ ,  $H_2$ ,  $H_3$  can be written as the sum of all partial solutions of the wave equation : (6)  $H_1 = \sum_{n=1}^{\infty}$

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Rectangular Waveguides With Rectangular  
Grooves and Open on One or Both Sides

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$A_{1m} \cos r_{1m} y \operatorname{chr}_{1m}' x, H_2 = A_{20} \cos k(x-\alpha) + \sum_{n=1}^{\infty} A_{2n} \cos r_{2n} y \operatorname{chr}_{2n}'(x-\alpha), H_3$

 $= \sum_{m=1}^{\infty} A_{3m} \cos r_{3m} y e^{ir_{3m}' x}, \text{ with } r_{1m} = r_{3m} = m\pi/b, m = 1, 2, \dots, r_{2n} = n\pi/g, n = 0, 1, \dots, r''_{ik} = \sqrt{k^2 - r_{ik}^2} = ir_{ik}', m \text{ and } n \text{ are partial wave numbers } H_1, H_2, H_3$ 

are connected by four boundary conditions: for  $x = d_1$  is (I)  $H_1 = H_2$  (II)  $\frac{\partial H_1}{\partial x} = \frac{\partial H_2}{\partial x}$ , for  $x = d_2$  is (III)  $H_2 = H_3$  (IV)  $\frac{\partial H_2}{\partial x} = \frac{\partial H_3}{\partial x}$ . If equation (6) is differentiated according to (II), then the sum for  $\frac{\partial H_1}{\partial x}$  can be considered a Fourier expansion of a new function  $\varphi_1(y)$ ;  $A_{1n}, A_{20}, A_{2n}$  are its Fourier coefficients which can be computed and substituted in (I). The boundary conditions (III) and (IV) are treated similarly. Two integral equations are obtained which can be solved approximately by applying the method Bubnov-Galerkin. The following two equations are obtained for the characteris-

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Rectangular waveguides with rectangular  
Grooves and open on One or Both Sides

tic system of a rectangular waveguide with one side open:  $\operatorname{ctg} k (d_1 - \epsilon)$

$$= -2 k \frac{\epsilon}{b} \sum_{m=1}^{\infty} \frac{\operatorname{ctg} r'_{1m} d_1}{r'_{1m}} \left( \frac{\sin r'_{1m} \epsilon}{r'_{1m} \epsilon} \right)^2, \operatorname{ctg} k (d_2 - \epsilon) = 2 k \frac{\epsilon}{b} \sum_{m=1}^{\infty} \frac{1}{r'_{2m}}$$

$\left( \frac{\sin r'_{2m} \epsilon}{r'_{2m} \epsilon} \right)^2$ . The rectangular waveguide which is open on both sides is divided into two partial spaces 1,2 (Fig.2) for which the relation  $H_1$

$$= \sum_{n=0}^{\infty} P_{1n} \cos p_{1n} \frac{\operatorname{sh}(p_{1n} x)}{\operatorname{ch}(p_{1n} x)}, H_2 = \sum_{m=1}^{\infty} B_{2m} \cos p_{2m} y e^{-p_{2m} x}, \text{ is valid; sh if } H_1(x=0)$$

= 0, ch if  $\frac{p_{1n}}{x} = 0$  at  $x = 0$ ,  $p_{1n} = n\pi/\epsilon$ ,  $n = 0, 1, \dots$ ,  $p_{2m} = m\pi/d$ ,  $m$

= 1, 2, ...,  $p'_{1n} = \sqrt{p_{1n}^2 - k^2}$ ,  $p'_{2m} = \sqrt{p_{2m}^2 - k^2}$ . As has been noted under 1), the

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Rectangular waveguides with Rectangular  
Grooves and Open on one or Both Sides

boundary conditions  $H_2 = H_1$ ,  $\frac{\partial H_1}{\partial x} = \frac{\partial H_2}{\partial x}$  at  $x = d_1$ , lead to a characteris-

tic equation of the rectangular waveguide open on both sides:  $2 k \frac{g}{b} \sum_{m=1}^{\infty} \frac{1}{p_{2m}^2} \left( \frac{\sin p_{2m} g}{p_{2m} g} \right)^2 = - \operatorname{tg} k d_1$  for  $H_1(x=0) = 0$ , or  $\operatorname{ctg} k d_1$  for  $\frac{\partial H_1}{\partial x} = 0$

at  $x = C$ . Fig. 4 shows the influence of the dimensions of the groove on  $k$ .  
There are 4 figures and 5 Soviet references.

SUBMITTED: March 18, 1960

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"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206330011-5

BORISOV, N. N.

"Modern Methods of Constructing Main Pipe Lines" page 18 of the book  
Petroleum Bases and Pipe Lines, Gostoptekhizdat, 1956.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206330011-5"

BORISOV, N.N.

Efficient plan for pumping petroleum products through main pipelines.  
Neft,khoz.34 no.8:66-67 Ag '56. (MIRA 9:10)  
(Petroleum--Pipelines)

BORISOV, N.N., inzhener (g. Moskva)

Opposition to excesses in planning and laying main petroleum pipelines.  
Strel. pred. neft. prem. 2 no.3:1-3 Mr '57. (MIRA 10:4)  
(Petroleum--Pipelines)

BORISOV, N.N.

Possibilities for economizing metal in pipeline construction.  
Stroi. truboprov. 5 no. 4:1-2 Ad '60. (MIRA 13:9)  
(Pipelines)

BORISOV, N.N.

Pipeline transportation of petroleum and petroleum products. Transp.  
i khran. nefti. pt. c no.2:3~5 '63. (MIRA 17:10)

1. Sovet narodnogo khozyaystva SSSR.

BORISOV, N.N.

Present status of and prospects for the technical development  
of the pipeline transportation of petroleum and petroleum  
products. Transp. i Khran.nefti i nefteprod. no.2:3-7 '64.  
(MIRA 17:5)

1. Sovet narodnogo khozyaystva SSSR.

BORISOV, N.N.

Some problems in the planning and prospective development of  
bulk plants. Transp. i khran, nefti i nefteprod. no. 5:21-23 '65.  
(MIRA 18:10)

1. Sovet narodnogo khozyaystva SSSR.

1. KAZAKOV, N. P.; BORISOV, N. P.
2. USSR (600)
4. Ceramic Industries
7. Perfecting the technology of faience sanitary products.  
Stek. i ker. 9, no. 9, 1952
  
9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

FILINKOVSKAYA, Ye.F.; BUKLOVA, M.G.; PANOV, P.M.; BORISOV, N.P.;  
PORILLO, K.P.

Textile-treating substance - condensate BF. Khim.volok. no.1:  
72-74 '63. (MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstven-  
nogo volokna(for Filinkovskaya, Buklova). 2. Ivanovskiy  
khimicheskiy zavod im. Baturina (for Panov, Borisov, Porillo).  
(Textile finishing)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206330011-5

KASHIRIN, G.P.; BORISOV, N.S.; POLYAKOV, B.A.

Using motor cranes in stretching reinforcing wire. Suggested  
by G.P. Kashirin, N.S. Borisov, B.A. Poliakov. Rats. predl.  
no. 41:6 '59. (MIRA 14:1)  
(Reinforced concrete)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206330011-5"

BORISOV, N.S., inzh.

Valuable textbook ("Machinery for harvesting hay; design, theory,  
and calculation" by I.F. Popov. Reviewed by N.S. Borisov.) Trakt.  
i sel'khozmash. no.11:3 of cover N '59. (MIRA 13:3)  
(Hay--Harvesting)

OREKHOV, Anatoliy Dmitriyevich; MUSINOV, Lev Nikolayevich; KAUFMAN,  
Vladimir Aleksandrovich; BORISOV, N.S., inzh., retsenzent;  
YATSENKO, V.A., inzh., retsenzent; FAL'KO, O.S., inzh., red.;  
GORDEYEVA, L.P., tekhn.red.

[New agricultural machinery; brief manual] Novye sel'sko-  
khoziaistvennye mashiny; kratkii spravochnik. Moskva, Gos.  
nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 254 p.  
(Agricultural machinery) (MIRA 13:9)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206330011-5

BORISOV, N.S.; TROITSKIY, L.V., redaktor; FOMILLANT, G.B., tekhnicheskiy  
redaktor

[Receivers for local reception] [Priemnik mestnogo priema. Moskva,  
Gos. energeticheskoe izd-vo, 1949. 30 p. (Massovaia radio biblioteka,  
no.49) (MIRA 8:2)  
(Radio--Receivers and reception)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206330011-5"

BORISOV, N.S.

Possible damage to group switches. Elek. i tepl. tiaga 3 no.3:35-37  
Mр '59. (MIRA 12:5)

1. Mashinist-instruktor depo Moskva-Sortirovochanaya, Moskovsko-  
Ryazanskaya doroga.  
(Electric locomotives--Electric equipment)

BORISOV, N.S.

Practical advice pertaining to the work of electric locomotive crews in winter. Elek. i tepl. tiaga 3 no.12:12-14 D '59.  
(MIRA 13:4)

1. Mashinist-instruktor depo Moskva-Sortirovochnaya-Ryazanskaya Moskovskoy dorogi.  
(Electric locomotives--Cold weather operation)

(BORISOV, N.S., mashinist-instruktor

A beneficial lesson. Elek. i tepl. tiaga no.1:14-15 Ja '61.  
(MIRA 14:3)

1. Depo Moskva-Sortirovochnaya-Ryazanskaya.  
(Electric railroads)

BORISOV, N.S., mashinist-instruktor

A stand for adjusting the antislippage protection systems of  
electric locomotives. Elek. i tepl. tiaga 6 no.11:27-29 N  
'62. (MIRA 16:1)

1. Depo Moskva-Sortirovochnaya-Ryazanskaya.  
(Electric locomotives)  
(Electric railroads--Electric equipment)

BOVE, Yevgeniy Genrikhovich; BORISOV, Nikolay Sergeyevich; VOLKOV,  
Georgiy Nikolayevich; CHUVERIN, Yuriy Ivanovich;  
BYCHKOVSKIY, A.V., red.

[Electric devices for preventing slippage of VL22<sup>M</sup>, VL23,  
and ChS electric locomotives] Elektricheskie protivobokso-  
vochnye ustroistva elektrovozov VL22<sup>M</sup>, VL23 i ChS. [By]  
E.G.Bove i dr. Moskva, Izd-vo "Transport," 1964. 78 p.  
(MIRA 17:6)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut  
zheleznodorozhного transporta. 2. Starshiye nauchnyye  
sotrudniki Vsesoyuznogo nauchno-issledovatel'skogo insti-  
tuta zhelezodorozhного transporta (for all except  
Bychkovskiy).

DOLGOV, I.A., kand.tekhn. nauk; ZEL'TSERMAN, I.M., kand. tekhn. nauk;  
BORISOV, N.S., inzh., retsenzent; ZHURAVLEVA, M.N., red.izd-va;  
[REDACTED], tekhn.red.

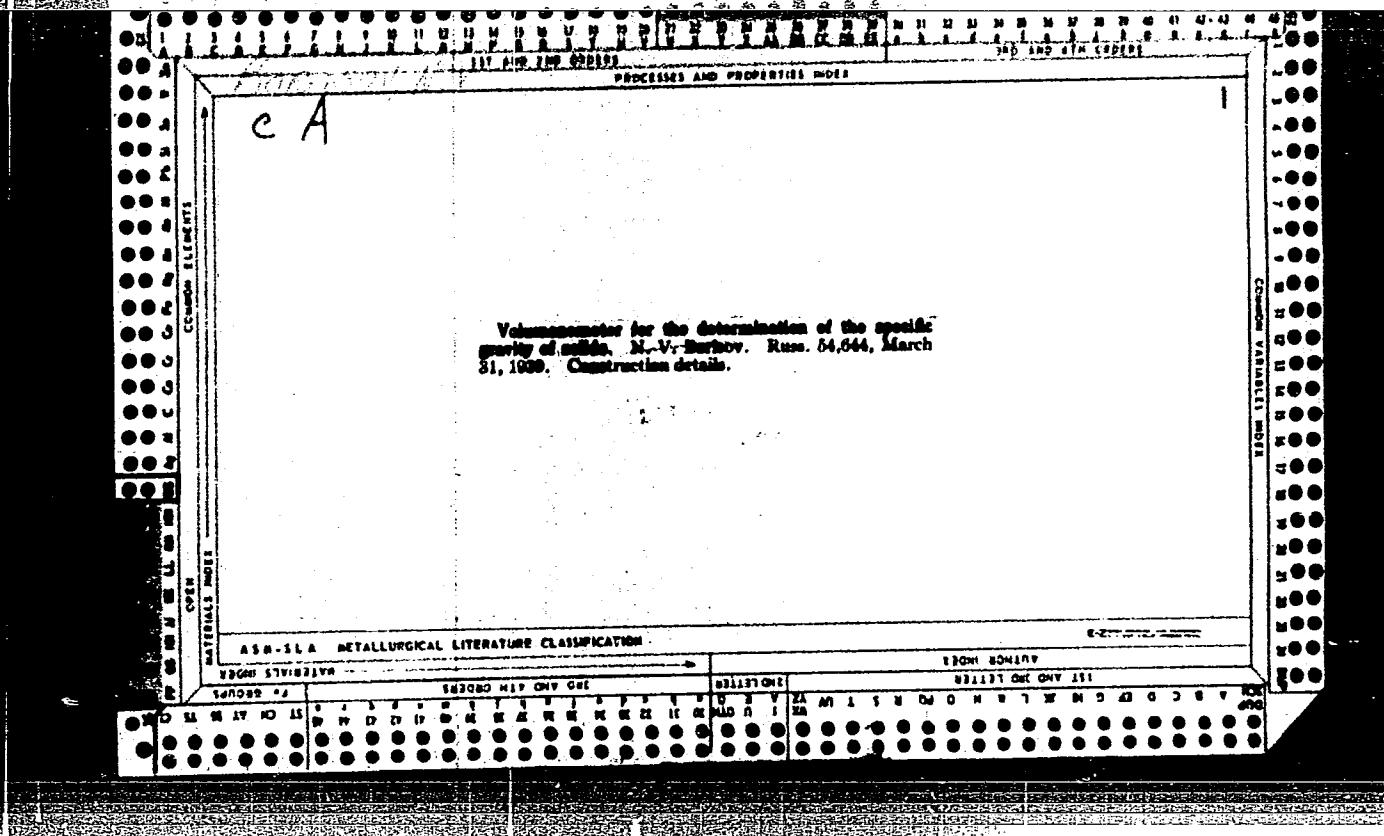
[Machines and instruments for the mechanization of hay  
harvesting; theory, calculations, and design] Mashiny i  
orudia dlja mekhanizatsii senouborochnykh rabot; teoriia,  
raschet i konstruktsia. Moskva, Mashgiz, 1963. 343 p.  
(MIRA 16:9)

(Hay--Harvesting) (Harvesting machinery)

BORISOV, N.V.

Perspectives for the development of the public health system in  
Leningrad Province in 1959-1965. Zdrav.Ros.Feder. 3 no.2:10-14  
F '59. (MIRA 12:2)

1. Nachal'nik Lechebnogo sektora Leningradskogo obldzdravotdela.  
(LENINGRAD PROVINCE--PUBLIC HEALTH)



BORISOV, N.V.

USSR/ Cosmochemistry. Geochemistry. Hydrochemistry

D.

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11547

Author : Borisov N.V., Subbota M.I., Morozova S.N., Kovtunenko M.V.  
Inst : All-Union Scientific Research Institute of Geological Prospecting  
for Petroleum

Title : Hydrogen in Marsh- and Other Gases

Orig Pub : Tr. Vses. n.-i. geol.-razved. neft. in-ta, 1955, 6, 165-175

Abstract : An instrument for determination of H<sub>2</sub> (accuracy 0.02%), is proposed, and a detailed description is given of its use for the analysis of natural gases. Data are presented on the analysis of 11 samples of marsh gas wherein H<sub>2</sub> was detected by means of the described instrument. Concentration of H<sub>2</sub> reached only 0.3% with a content of heavy hydrocarbons  $\leq$  0.03 - 0.01%. In gases of mud volcanoes the H<sub>2</sub> content was  $\leq$  0.06%

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BORISOV, N.V., inghener.

Laying a 325 mm submarine pipeline. Stroi.pred.neft.prom. 2  
no.5:21-23 My '57. (MIRA 10:7)  
(Pipelines)

BORISOV, N.V.

Laying a submarine pipeline. Azerb.neft.khoz. 36 no.7:44-46  
J1 '57. (MIRA 10:10)  
(Pipelines)

POLYAK, M.A.; EPSHTEYN, V.G.; LISOGURSKIY, I.Z.; YUR'YEVA, A.K.;  
ZAKHARKIN, O.A.; KOLDAYEVA, T.N.; Prinimali uchastiye:  
SKOVORODKIN, P.A.; GAVSHINOV, I.I.; MINEYEV, A.N.; SUR'YANINOVA,  
M.N.; BORISOV, N.V.

Studying the process of rubber mixture preparation in 20 r.p.m.  
rubber mixers. Kauch.i rez. 22 no.4:5-10 Ap '63.

(MIRA 16:6)

1. Yaroslavskiy shinnyy zavod i Yaroslavskiy tekhnologicheskiy  
institut.

(Rubber) (Rubber machinery)

BORISOV, N.Ye.; ABRAMOVA, M.A., redaktor; GERST, V.M., redaktor; KLYUCHNIKOV, B.V., redaktor; FILIPPOV, A.P., redaktor; ALEKSEYEVA, E.A., tekhnicheskiy redaktor

[City of the great Lenin] Gorod velikogo Lenina. [Leningrad]  
Lenizdat, 1957. 654 p.  
(MLRA 10:9)  
(Leningrad--Description)

BORISOV, N.Ya.; KRIVENKO, I.A., red.

[Booklet for painters; a brief reference book on Leningrad]  
Pamiatka khudozhniku; kratkaja spravka po Leningradu. Izd-vo  
"Leningradskij khudozhnik," 1958. 69 p. (MIRA 12:2)

1. Leningradskiy soyuz sovetskikh khudozhnikov.  
(Leningrad--Description)

BORISOV, N.Ya., red.; ZAZERSKIY, Ye.Ya., red.; PANOV, N.N., red.; POPOV, N.N., red.

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(Russia—Industries) (Agriculture —Labor productivity)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206330011-5

BELOVA, L.N., red.; BORISOV, N.Ya., red.; VYAZEMSKIY, S.M., red.;  
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Volcano and their main feeding source at the end of 1958. Bul.  
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BORISOV, O.G.

State of the fumaroles of active volcanoes of the Klyuchevskaya group and the Sheveluch Volcano during the period Aug. 1957- Oct. 1958. Biul.Vulk. sta. no.30:7-16 '60. (MIRA 14:3)  
(Klyuchevskiy Volcano region—Fumaroles)  
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MARKHININ, Ye.K.; BORISOV, O.G.; MARKHININA, S.N.

Determining the approximate chemical composition of volcanic rocks  
in Kamchatka and Kurile Islands by the refractive index of arti-  
ficial glasses obtained from them. Biul.Vulk.sta. no.30:75-85 '60.

(Kamchatka--Rocks, Igneous--Analysis)

(Kurile Islands--Rocks, Igneous--Analysis)

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MARKHININ, Ye.K.; BASHARINA, L.A.; BORISOV, O.G.; BORISOVA, V.N.; PUGACH, V.B.;  
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Study of the state of volcanoes of the Klyuchevskaya group and the  
Sheveluch Volcano in 1958-~~59~~. Biul.Vulk.sta. no.31:~~3~~-16 '61.

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BORISOVA, V.N.; BORISOV, O.G.

Observations inside the Bezymyannyy Volcano crater in the summer  
of 1960. Biul. Vulk. sta. no.32:14-19 '62. (MIRA 15:10)  
(Bezymyannyy Volcano)

BORISOV, O.G.; NIKITINA, I.B.

Status of fumaroles of the Sheveluch and Bezymyannyy volcanoes  
in 1960. Biul.Vulk.sta. no.33:3-19 '62. (MIRA 15:12)  
(Kamchatka—Volcanoes)

BORISOV, O.G.; BORISOVA, V.N.

Repeated heat-up of the agglomerate flow of the Bezymyannyy Volcano, 1959-1960. (Soob. DVFAK SSSR no.19:9-13 '63. [17:9])

1. Dal'nevostochnyy geologicheskiy institut dal'nevostochnogo filiala Sibirskogo otdeleniya AN SSSR.

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Improving the design of water heaters. Shor.rats.predl.vnedr.v  
proizv. no.1:42 '61. (MIRA 14:?)

1. Zavod "Elektrostal'."  
(Water heaters)

I 23794-65 EWT(m) DIAAP

ACCESSION NR: AT5003283

S/2892/64/000/003/0055/0064

AUTHOR: Kimel', L. R.; Klimanov, V. A.; Borisov, O. I.

TITLE: <sup>19</sup> Measurement of the spectral distribution of gamma radiation from a 0.662 Mev point unidirectional source scattered in water

SOURCE: Moscow, Inzhenerno-fizicheskiy institut, Voprosy dozimetrii i zashchity ot izlucheniya, no. 3, 1964, 55-64

TOPIC TAGS: gamma radiation, gamma ray scattering, water scattering, spectral distribution, gamma ray dosimetry, organic scintillation counter, anthracene

ABSTRACT: The study of the radiation field of a thin  $\gamma$ -ray beam has usually dealt in the past with its integral characteristics. In an earlier paper (L. R. Kimel', A. N. Panchenko, V. P. Terent'yev, Atomnaya energiya, vol. 15, no. 4, 1963, p. 328), one of the authors evaluated the spectral-angular characteristics of the scattering in Fe of a 0.662 Mev thin  $\gamma$ -ray beam, using the Monte Carlo method. The present paper reports experimental studies of the scattering in water of the same thin beam. To avoid large scale perturbations due to the atomic numbers and densities of inorganic scintillators, the authors used anthracene, whose atomic number and density are close to those of water. A very detailed description of the construction and

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operation of the experimental setup is followed by a theoretical discussion of various necessary corrections. The procedures for the measurement of soft spectral components of scattered  $\gamma$ -rays were tested by measuring the radiation from a point  $C_{60}$  source at a distance of 4 mean free paths from the source. The results agreed within 25% with the theoretically calculated values of Goldstein and Wilkins (Calculations of the penetration of gamma rays. Final report, NYO-3075, 1954). The differential energy spectra of 0.662 Mev  $\gamma$ -quanta scattered in water are shown in Fig.1 of the Enclosure. A characteristic feature of the diagrams is the appearance of peaks due to single and multiple scattering. Orig. art, has: 9 formulas, 8 figures, and 3 tables.

ASSOCIATION: None

SUBMITTED: 00

ENGL: 02

SUB CODE: NP

NO REF Sov: 004

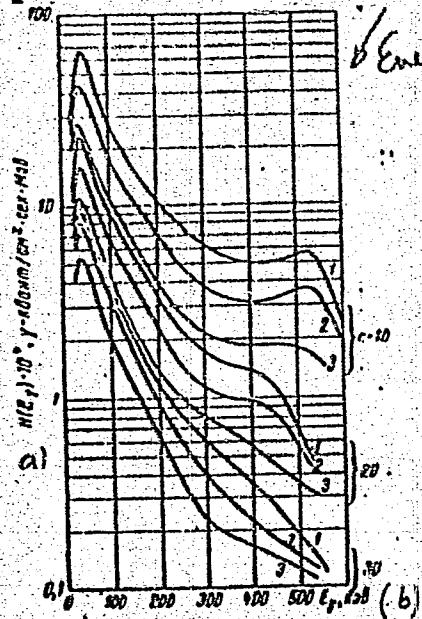
OTHER: 004

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ACCESSION NR: AT5003283

ENCLOSURE: 01



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ACCESSION NR: AT5003283

ENCLOSURE: 02

Figure 1. Differential energy spectrum of  $\gamma$ -radiation from a 0.662 Mev point uni-directional source scattered in water. Spectra are normalized to a 1  $\gamma$ -quantum/sec. intensity of the source: 1 -  $h = 19.1$  cm; 2 -  $h = 29.1$  cm; 3 -  $h = 39.1$  cm.  
(a) ...  $\gamma$ - quanta/cm<sup>2</sup>.sec.Mev; (b) kev.

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"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206330011-5

BORISOV, O.M.

Interaction of acid magma with xenoliths. Zap. Kir. ctd, Vses,  
min. ob-va no. 4813-25 '63.  
(MIRA 1788)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206330011-5"

15-1957-10-13880

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10,  
p 72 (USSR)

AUTHOR: Borisov, O. M.

TITLE: Paleo-ignimbrites of Kalkanat (Paleoignimbryt Kalkanata)

PERIODICAL: Izv. AN UzSSR, 1956, Nr 11, pp 37-43 (Summary in Uzbeg)

ABSTRACT: The paper describes distinctive rocks--paleo-ignimbrites --on the northern slope of the Karamazarskiy Mountains (Kuraminskiy Range) in the Kalkanat region, which were formerly considered to be "intrusive quartz porphyries." The author's studies have established that these "porphyries" and Lower Devonian volcanic rocks are identical and has made their tuffaceous origin apparent. The Lower Devonian volcanic rocks of Kalkanat are approximately 600 m thick, lie unconformably on deformed metamorphic schists of late Silurian age, and are overlain by a series of Middle Devonian transgressive conglomeratic arkosic deposits. The stratigraphic section of volcanic rocks consists of 1) ignimbrites of felsite porphyry

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15-1957-10-13880

## Paleo-ignimbrites of Kalkanat (Cont.)

with layers of agglomeratic tuff at the bottom (about 150 m); 2) ignimbrites of anorthoclase-quartz porphyry with layers of ashy tuffs at the top (about 250 m); and 3) ashy tuffs of quartz-feldspar porphyry with alternating layers of clastic tuffs at the top (about 200 m). Metamorphism produced by intrusions of quartz syenite-diorites, granodiorites, and alaskitic granites caused gradual recrystallization of the ignimbrites, converting them into paleo-ignimbrites. These are abundant in the Karakiya river basin and also form xenolithic blocks in the syenite-diorites and the granodiorites. The paleo-ignimbrites contain plagioclase ( $Ab_{88}$ - $Ab_{98}$ ), anorthoclase, quartz, hornblende, biotite, and accessories: apatite, hematite, magnetite, zircon, and ilmenite. The plagioclase is more commonly  $Ab_{98}$  than  $Ab_{88}$  and the anorthoclase is predominantly potassic. All freshly formed potash feldspar grains of metamorphic origin belong to the triclinic system, but they have optic angles ranging from  $-24$  to  $-83^{\circ}$ ; the smaller angle is characteristic of grains (sanidine) formed during upper Paleozoic volcanism, whereas potassic anorthoclase, gradually converting into untwinned micro-

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15-1957-10-13880

Paleo-ignimbrites of Kalkanat (Cont.)

cline, formed during the epoch of neo-Caledonian magmatism by the action of quartz syenite-diorite-porphry intrusions. Albitophyre and quartz-porphry paleo-ignimbrites developed by the metamorphism of ignimbrites and tuffs of felsite porphyry, and of ignimbrites and anorthoclase-quartz porphyry respectively.

Card 3/3

S. P. Bryzgalina

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206330011-5

BORISOV, O.M.

Genesis of the lower Devonian volcanic formation in the northern part of the Kara-Mazar Mountains (Kalkanata). Izv. AN Uz. SSR. Ser. geol. no.2:15-26 '57. (MIRA 11:9)  
(Kalkanata Mountains--Volcanic ash, tuff, etc.)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206330011-5"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206330011-5

BORISOV, O.M.

Assimilation processes in the formation of Kalkanata granitoids.  
Izv. AN Uz. SSR. Ser. geol. no.4:23-35 '57. (MIRA 11:9)  
(Kalkanata Mountains--Granite)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206330011-5"

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BORISCV, O.M.

Hybrid trondhjemite in the Umbetssay massif. Zap. Uz. Otd. Vses.  
min. ob-va no.12:43-53 '58. (MIRA 11:10)  
(Kara Mazar Mountains--Trondhjemite)

BORISOV, O.M.

Distribution and conversions of xenoliths in Kalkanata granitoids.  
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(Kara-Mazar Mountains--Granite)  
(Kara-Mazar Mountains--Petrology)

ABDULLAYEV, Khabib Mukhamedovich; KHAMBABAYEV, I.Kh., red.; BORISOV,  
O.M., red.; CHERNYAVSKAYA, A.B., red.izd-va

[Magmatic activity and ore formation in Central Asia] Magmatizm  
i orudnenie Srednei Azii. Tashkent, Izd-vo Akad.nauk Uzbeckoi  
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Classification of petrographic provinces. Uzb.geol.zhur. no.1:59-69  
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KHARABAYEV, I.Kh.; BORISOV, O.M.

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petrographic provinces. Uzb.geol.zhur. no.3:68-81 '60.

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YAKUBOV, D.Kh.; BORISOV, O.M.

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Ore-bearing petrographic provinces in South America. Uzb. geol.  
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(South America—Rocks, Igneous)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206330011-5

BORISOV, O.M.

Geochemistry of aluminum and calcium as revealed by the studies  
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I.Kh.; BAYMUKHAMEDOV, Kh.N.

Khabib Mukhamedovich Abdullaev; obituary. Geol.rud.mestorozh.  
no. 5:119-120 S-0 '62. (MIRA 15:12)  
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CIA-RDP86-00513R000206330011-5"

AKRAMKHODZHAYEV, A.M.; AKHMEDZHANOV, M.A.; BABAYEV, A.G.; BABAYEV, K.L.;  
BATALOV, A.B.; BASHAYEV, N.P.; BAYMUKHAMEDOV, Kh.N.; BRAGIN,  
K.A.; BORISOV, O.M.; GABRIL'YAN, A.Sh.; GAR'KOVETS, V.G.;  
GOR'KOVOY, O.P.; GRIGORYANTS, S.V.; IBADULLAYEV, S.I.; ISMAILOV,  
M.I.; ISAMUKHAMEDOV, I.M.; KAKHKHAROV, A.; KENESARIN, N.A.;  
KRYLOV, M.M.; KUCHUKOVA, M.S.; LORDKIPANIDZE, L.N.; MAVLYANOV,  
G.A.; MOTSOKINA, T.M.; MALAKHOV, A.A.; MIRBABAYEV, M.Yu.;  
MIRKHODZHIYEV, I.M.; MUSIN, R.A.; NABIYEV, K.A.; PETROV, N.P.;  
POPOV, V.I.; PLATONOVA, N.A.; RYZHKOV, O.A.; SAYDALIYEVA, M.S.;  
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A.S.; KHAMRABAYEV, I.Kh.; KHODZHIBAYEV, N.N.; CHUMAKOV, I.D.;  
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(Kalkanata Mountains—Porphyrites)

ABDULLAYEV, Kh.M.; BORISOV, O.M.

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BORISOV, O.M.; LORDKIPANIDZE, L.N.

Scale of crustal structures. Uzb. geol. zhur. 7 no.3:49-54  
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AKHMEDZHANOV, M.A.; BORISOV, O.M.; MUSIN, R.A.; YAKUBOV, D.Kh.

Tectonic pattern of the Almalyk ore zone. Uzb. geol. zhur.  
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ABDULLAYEV, Khabib Mukhamedovich, laureat Leninskoy premii,  
akademik (1912-); MAVLYANOV, G.A., akademik, glav. red.;  
BAYMUKHAMEDOV, Kh.N., doktor geol.-miner. nauk, prof.,  
otv. red. toma; KHMIRABAYEV, I.Kh., doktor geol.-miner.  
nauk, red.; BORISOV, O.M., kand. geol.-miner. nauk, red.;  
GOR'KOVOY, O.P., kand. geol.-miner. nauk, red.; KUCHUKOVA,  
M.S., kand. geol.-miner. nauk, red.; MATSOKINA, T.M., kand.  
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USMANOV, F.A.; ISAMUKHAMEDOV, I.M., doktor geol.-min. nauk;  
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MUSAYEV, A.M.; SVIRIDENKO, A.F.; SULTAN-UIZ-DAG; GOLOVIN,  
Ye.M., kand. geol.-miner. nauk; VIS'NEVSKIY, Ya.S., kand.  
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areas adjacent to it. Uzb. geol. zhur. 8 no.4:30-37 '64.  
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